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				U.S. PATENT DOCUMENT	rs	
Examiner Initials	Cite No.1	U.S. Patent Document		Name of Patentee or Applicant of Cited	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)	Document	Number () 1	
#1		4,239,345		Berreman et al.	12/16/80	
1,		4,272,162		Togashi et al.	06/09/81	
		5,258,135		Uchida et al.	11/02/93	
	1	5,637,672		Rieger et al.	06/10/97	
		5,462,621		Ishii	10/31/95	
	1	5,298,297		Takei	03/29/94	
		5,250,214		Kanemoto et al.	10/15/93	
		5,189,535		Mochizuki et al.	02/23/93	
•	1	5,172,255		Brosig et al.	12/15/92	
1		4,508,427		Ross	04/02/85	
1/		5,005,952		Clark et al.	04/09/91	
1/		5,495,355		Konuma	02/27/96	
-V		4,492,432		Kaufmann et al.	01/08/85	
In	1	5,995,185		Konuma	11/30/99	

			F	OREIGN PATENT DOC	UMENTS			
Examiner Initials	Cite No.	Foreign Patent Document		Name of Patentee or	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant		
		Office ³	Kind Code ³ Number ⁴ (<i>If knawn</i>)	Applicant of Cited Document	MM-DD-YYYY	Figures Appear	T*	
#1		JP	03-158823 🗸		07/08/91		Full	
1 /		JP	63-298220 ✓		12/06/88		Abst.	
1/	·	JP	56-164320 🗸		12/17/81		Abst.	
-		JP	03-031821		02/12/91		Abst.	
411		JP	01-204025 🗸		08/16/89		Abst.	
		<u> </u>	OTHER PRIOR	R ART – NON PATENT LITE	RATURE DOCUMENTS			
Examiner Initials								
#1			tumoto et al., "New H uri, Vol. 45, No. 1, pp	ybrid-Aligned Nemati b. 853-856, 1976.	c Multicolor Liquid-(Crystal Display," Oyo		

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Approved for use through 10/31/2002. OMB 0651-0031

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INFO	RMATION I	DISC	LOSURE	Application Number	Based on 09/678,656
				Filing Date	October 4, 2000
STATEMENT BY APPLICANT (use as many sheets as necessary)				First Named Inventor	Toshimitsu KONUMA
	(use as many sneets	as necess	ary)	Group Art Unit	2871
	·			Examiner Name	Huyen Le Ngo
Sheet	2	of	3	Attorney Docket Number	0756-7221

					U.S. PATENT DOCUM	ENT	'S		
Examiner Initials	Cite No. 1				Name of Patentee or Applicant of Cited Document		Date of Publication of Cit Document MM-DD-YYYY	ed Pages, Columns, Lines, W Passages or Relevant Fig	
#1		- 1	4,965,017		lalman et al		. 10/22/00		
410				+-	lolmes et al.		10/23/90		
			013,137		suboyama et al.		05/07/91		
			064,697	$\overline{}$	akiguchi et al.		11/12/91		
	ļ		172,187		rosig		12/15/92		
			194,973		ogai et al.		03/16/93		
-\			250,214		anemoto et al.		10/05/93		
(14)			200,238	-	icArdle et al.		04/06/93		
HW	<u> </u>	4,	596,446		/aters et al.		06/24/86		
				F(OREIGN PATENT DOC	UME	NTS		
Examiner Initials	Cite No.1		Foreign Patent Document Kind Code	,	Name of Patentee or Applicant of Cited Document	Di	nte of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
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'1		JP	64-004721 √			01	/09/89		Abst.
		JP	63-228125 🗸			09	/22/88		Abst.
		JP	64-055537 🗸			03	/02/89		Abst.
		JP	64-059325 🗸			03	/07/89		Abst.
		JP	64-059326 ∜/	_		03	/07/89		Abst.
		JP	64-059322			03	/07/89		Abst.
		JP	64-059324		-	03	/07/89		Abst.
		JP	64-059323 ✓			03	/07/89		Abst.
		JP	64-059328			03	/07/89		Abst.
		JP	64-059327 √			03	/07/89		Abst.
		JP	04-149516 🗸			05	/22/92		Abst.
		JP	02-287317 🗸			11	/27/90		Abst.
HN		JP	06-018887 √			01	/28/94		Abst.
		EP	0 376 030			12	/1988		
442		JP	3-276122 √			12	/06/91		Full
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		Office ³	Kind Code ³ Number ⁴ (if known)	Name of Patentee or Applicant of Cited Document	Document MM-DD-YYYY	Relevant Passages or Relevant Figures Appear	74
-		ĴР	64-091172		04/10/89		Full
	 	JP	2-118517		05/02/90		Full
	—	JP	04-140714		05/14/92		Abst.
	-	JP	51-037249		03/29/76		Abst.
	1	JP	03-031821		02/12/91		Full
		JP	02-287317		11/27/90		Full
THO	 	JP	05-158045		06/25/93		Abst.
TIN	1	JP	04-355726		12/09/92		Abst.
71.	<u> </u>		OTHER PRIO	R ART – NON PATENT LITE	RATURE DOCUMENTS		
Examiner Initials	Cite No.1		item (book, magazine, j	thor (in CAPITAL LETTERS), journal, serial, symposium, catal publisher, city and/or coun	og, etc.)., date, page(s), volum try where published.	e-issue number(s),	T²
	-	M.	Nishikawa et al., "Ali	gnment Layers for Ael	tive Matrix LCD," Th	e Techincal Report	
		oft	he Proceedings of the	Institute of Electronic	s, Information and Co	mmunication	
				167, pp. 13-18, Februai			
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